**SANDY POINT**
**2003 VIBRACORE LOGS**

**HOLE NO. SPVC-03-03**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855493 Y=232415

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-03

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.5 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/05/03 1052

**17. ELEVATION TOP OF HOLE** -36.1 FT

**18. TOTAL CORE RECOVERY FOR BORING** 97%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36.1 | 0 | | | | | |
| -37.4 | 1 | | CLAY (soft from 0.0'-0.6'), little sand laminae, trace shell hash, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 0.6<br>*Mean (mm): 0.010, Phi Sorting: 2.46<br>*Sand: 12.25%, Silt: 57.41%, Clay: 30.40% |
| | 2 | | | | | |
| | 3 | | SAND, fine grained, quartz, some silt, gray (5Y-5/1), (SM). | | 2 | Sample #2 Depth = 3.5<br>Mean (mm): 0.09, Phi Sorting: 0.59<br>Silt: 21.48% (SM) |
| | 4 | | | | | |
| | 5 | | | | | |
| -42.3 | 6 | | | | | Sample #6 Depth = 6.5<br>*Mean (mm): 0.092, Phi Sorting: 0.70<br>*Sand: 80.32%, Silt: 17.33%, Clay: 2.39% |
| -42.9 | | | SILT, little sand, gray (5Y-6/1), (ML). | | 6 | Mean (mm): 0.08, Phi Sorting: 0.55<br>Silt: 42.27% (ML) |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | SAND, fine grained, quartz, little silt, trace clay laminae, 1.0" clay burrow @ 10.9', gray (5Y-6/1), (SM). | | 3 | Sample #3 Depth = 9.0<br>Mean (mm): 0.09, Phi Sorting: 0.43<br>Silt: 12.93% (SM) |
| | 10 | | | | | |
| -47.1 | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | 4 | Sample #4 Depth = 13.7<br>Mean (mm): 0.14, Phi Sorting: 0.45<br>Silt: 2.34% (SP) |
| | 14 | | SAND, fine grained, quartz, fining upwards, trace silt, trace organics, 2.0" sandy clay layer @ 12.3', gray (5Y-6/1), (SP). | | | |
| | 15 | | | | | |
| | 16 | | | | 5 | Sample #5 Depth = 17.3<br>Mean (mm): 0.15, Phi Sorting: 0.43<br>Silt: 1.61% (SP) |
| | 17 | | | | | |
| -54.1 | 18 | | | | | |
| -54.6 | | | No Recovery | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-05**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863175 Y=222287

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-05

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 17.2 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/05/03 1246

**17. ELEVATION TOP OF HOLE** -34.9 FT

**18. TOTAL CORE RECOVERY FOR BORING** 91%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.9 | 0 | | | | | |
| | 1 | | SAND, fine grained, quartz, little silt, little clay, trace shell hash, dark gray (5Y-4/1), (SC). | | 1 | Sample #1 Depth = 1.5<br>*Mean (mm): 0.027, Phi Sorting: 2.40<br>*Sand: 60.52%, Silt: 26.21%, Clay: 13.23%<br>Mean (mm): 1.10, Phi Sorting: 0.72<br>Silt: 22.54% (SM) |
| | 2 | | | | | |
| -38 | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | SAND, fine grained, quartz, trace silt, 0.5" clay layer @ 6.6', 2.0" light yellowish brown (10YR-6/4) clay layer from 7.1'-7.3', gray (5Y-6/1), (SP). | | 2 | Sample #2 Depth = 5.5<br>Mean (mm): 0.14, Phi Sorting: 0.65<br>Silt: 7.63% (SW-SM) |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| -45.3 | 10 | | | | | Sample #3 Depth = 10.6<br>Mean (mm): 0.072, Phi Sorting: 0.94<br>*Sand: 72.40%, Silt: 21.79%, Clay: 5.76%<br>Mean (mm): 0.09, Phi Sorting: 0.69<br>Silt: 36.63% (ML) |
| -45.9 | 11 | | SILTY SAND, 0.5" organic layer @ 8.8', gray (5Y-5/1), (SM). | | 3 | |
| | 12 | | SAND, fine grained, quartz, fining upwards, trace silt, gray (5Y-5/1), (SP). | | 4 | Sample #4 Depth = 11.4<br>Mean (mm): 0.13, Phi Sorting: 0.62<br>Silt: 7.74% (SW-SM) |
| -48.2 | 13 | | | | | |
| | 14 | | SAND, fine grained, quartz, fining upwards, trace silt, 1.0" clay burrow @ 14.6', gray (5Y-5/1), (SP). | | 5 | Sample #5 Depth = 15.3<br>Mean (mm): 0.17, Phi Sorting: 0.44<br>Silt: 2.42% (SP) |
| -50.5 | 15 | | | | | |
| | 16 | | No Recovery | | | |
| -52.1 | 17 | | | | | |
| | 18 | | End of Boring | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-05A**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863172 Y=222290

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-05A

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 16.6 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/05/03 1246

**17. ELEVATION TOP OF HOLE** -34.9 FT

**18. TOTAL CORE RECOVERY FOR BORING** 86%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.9 | 0 | | | | | |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | Jetted to 14.4' | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| -49.3 | 14 | | SANDY CLAY, little organics, dark gray (5Y-4/1), (CL). | | 6 | Sample #6 Depth = 14.5<br>*Mean (mm): 0.009, Phi Sorting: 2.51<br>*Sand: 13.70%, Silt: 49.95%, Clay: 36.29% |
| | 15 | | SAND, fine grained, quartz, trace silt, 0.25" clay burrow @ 15.4', gray (5Y-5/1), (SP). | | 7 | Sample #7 Depth = 16.0<br>Mean (mm): 0.16, Phi Sorting: 0.47<br>Silt: 2.49% (SP) |
| -51.2 | 16 | | | | | |
| -51.5 | | | No Recovery | | | |
| | 17 | | End of Boring | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-06**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863029 Y=223563

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-06

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.6 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/05/03 1429

**17. ELEVATION TOP OF HOLE** -34.9 FT

**18. TOTAL CORE RECOVERY FOR BORING** 90%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.9 | 0 | | | | | |
| | 1 | | SILTY SAND, 2.0" clay layer from 1.6'-1.8', dark gray (5Y-4/1), (SM). | | 1 | Sample #1 Depth = 1.0<br>Mean (mm): 0.11, Phi Sorting: 0.69<br>Silt: 18.55% (SM) |
| -36.9 | 2 | | | | | |
| | 3 | | SAND, fine grained, quartz, little silt, 2.0" sandy clay layer from 3.8'-4.0', dark gray (5Y-4/1), (SW-SM). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.12, Phi Sorting: 0.55<br>Silt: 6.75% (SW-SM) |
| -39.1 | 4 | | | | | |
| -39.7 | | | SAND, fine grained, quartz, trace silt, gray (5Y-5/1), (SW-SM). | | 4 | |
| | 5 | | CLAY, little sandy layers, dark gray (5Y-4/1), (CL). | | 3 | Sample #3 Depth = 5.4<br>*Mean (mm): 0.007, Phi Sorting: 1.97<br>*Sand: 1.48%, Silt: 65.28%, Clay: 33.26% |
| -40.7 | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | SAND, fine grained, quartz, trace silt, trace organics, 3.0" clay layer from 9.9'-10.2', gray (5Y-6/1), (SW-SM). | | 4 | Sample #4 Depth = 7.0<br>Mean (mm): 0.16, Phi Sorting: 0.55<br>Silt: 4.01% (SP) |
| | 9 | | | | | |
| | 10 | | | | | |
| -46.2 | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | SAND, fine grained, quartz, trace silt, trace organics, 5.0" clay layer from 11.4'-11.9', 1.0" clay layers @ 12.7' and 13.0', 2.0" clay layer from 13.6'-13.8', 1.0" clay burrow @ 14.7', gray (5Y-6/1), (SW-SM). | | 5 | Sample #5 Depth = 15.5<br>Mean (mm): 0.15, Phi Sorting: 0.59<br>Silt: 3.85% (SW-SM) |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| -51.7 | 17 | | | | | |
| | 18 | | No Recovery | | | |
| -53.5 | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-07**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862989 Y=221283

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-07

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.5 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/05/03 1518

**17. ELEVATION TOP OF HOLE** -35.1 FT

**18. TOTAL CORE RECOVERY FOR BORING** 95%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.1 | 0 | | | | | |
| -35.9 | | | CLAY, soft, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 0.4<br>*Mean (mm): 0.008, Phi Sorting: 1.91<br>*Sand: 2.32%, Silt: 68.59%, Clay: 28.97% |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | SAND, fine grained, quartz, little silt, trace shell hash, gray (5Y-5/1), (SM). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.12, Phi Sorting: 0.59<br>Silt: 9.64% (SM) |
| | 4 | | | | | |
| | 5 | | | | | |
| -41.1 | 6 | | | | | |
| | 7 | | | | 3 | Sample #3 Depth = 7.0<br>Mean (mm): 0.13, Phi Sorting: 0.55<br>Silt: 5.17% (SW-SM) |
| | 8 | | | | | |
| | 9 | | SAND, fine grained, quartz, trace silt, trace clay laminae, gray (5Y-6/1), (SW-SM). | | | |
| | 10 | | | | 4 | Sample #4 Depth = 10.0<br>Mean (mm): 0.13, Phi Sorting: 0.47<br>Silt: 4.46% (SW-SM) |
| | 11 | | | | | |
| -47.6 | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | SAND, fine grained, quartz, trace silt, trace clay laminae, 2.0" clay layer from 12.8'-13.0', gray (5Y-6/1), (SW-SM). | | 5 | Sample #5 Depth = 15.0<br>Mean (mm): 0.15, Phi Sorting: 0.41<br>Silt: 3.44% (SP) |
| | 15 | | | | | |
| | 16 | | | | | |
| -52.1 | 17 | | | | | |
| -52.7 | | | CLAY, little sand layers, dark gray (5Y-4/1), (CL). | | 1 | |
| -53.6 | 18 | | No Recovery | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-09**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862566 Y=224414

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-09

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 19.0 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/07/03 1343

**17. ELEVATION TOP OF HOLE** -34.8 FT

**18. TOTAL CORE RECOVERY FOR BORING** 96%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.8 | 0 | | | | | |
| | 1 | | CLAY, trace sandy laminae, 2.0" silty sand layer from 1.8'-2.0', dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 1.6<br>*Mean (mm): 0.006, Phi Sorting: 1.91<br>*Sand: 1.02%, Silt: 61.76%, Clay: 37.32% |
| -37.2 | 2 | | | | | |
| | 3 | | SAND, some silt, gray (5Y-5/1), (SM). | | 2 | Sample #2 Depth = 6.5<br>Mean (mm): 0.09, Phi Sorting: 0.59<br>Silt: 16.09% (SM) |
| -43.1 | 8 | | | | | |
| | 9 | | SAND, fine grained, quartz, little silt, trace organics, gray (5Y-5/1), (SW-SM). | | 3 | Sample #3 Depth = 10.0<br>Mean (mm): 0.12, Phi Sorting: 0.56<br>Silt: 6.63% (SW-SM) |
| -45.6 | 10 | | | | | Sample #4 Depth = 11.2<br>*Mean (mm): 0.112, Phi Sorting: 0.68<br>*Sand: 86.69%, Silt: 10.72%, Clay: 2.48% |
| -46.3 | 11 | | SAND, little silt, dark gray (5Y-4/1), (SM). | | 4 | Mean (mm): 0.08, Phi Sorting: 0.48<br>Silt: 19.97% (SM) |
| | 12 | | SAND, fine grained, quartz, trace silt, trace clay laminae, 1.0" clay layer @ 12.3', 0.5" clay burrow @ 14.0', gray (5Y-5/1), (SW-SM). | | 5 | Sample #5 Depth = 13.0<br>Mean (mm): 0.13, Phi Sorting: 0.70<br>Silt: 9.68% (SW-SM) |
| -49.4 | 14 | | | | | |
| | 15 | | CLAY, little organic laminae, very dark gray (5Y-3/1), (CL). | | 1 | |
| -50.5 | | | | | | Sample #6 Depth = 16.0<br>*Mean (mm): 0.009, Phi Sorting: 2.57<br>*Sand: 13.49%, Silt: 51.80%, Clay: 34.72% |
| -51.1 | 16 | | CLAYEY SILT, dark gray (5Y-4/1), (ML). | | 6 | |
| | 17 | | SAND, some silt, gray (5Y-5/1), (SM). | | 2 | |
| -53 | 18 | | | | | |
| -53.8 | 19 | | No Recovery | | | |
| | 20 | | End of Boring | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
| | 22 | | | | | |
| | 23 | | | | | |
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# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863105 Y=222927

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-10

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.9 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/07/03 1423

**17. ELEVATION TOP OF HOLE** -34.8 FT

**18. TOTAL CORE RECOVERY FOR BORING** 93%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.8 | 0 | | | | | |
| -36 | 1 | | CLAY, little sand, 1.0" organic layer @ 0.8', very dark gray (5Y-3/1), (CL). | | 1 | Sample #1 Depth = 0.7<br>*Mean (mm): 0.017, Phi Sorting: 2.63<br>*Sand: 29.99%, Silt: 49.52%, Clay: 20.50% |
| | 2 | | | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.11, Phi Sorting: 0.62<br>Silt: 9.12% (SW-SM) |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | SAND, fine grained, quartz, some silt, trace clay burrows, trace organics, trace silty laminae, 2.0" sandy clay layer from 3.8'-4.0', color darkens towards bottom, gray (5Y-5/1), to dark gray (5Y-4/1), (SM). | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | 3 | Sample #3 Depth = 8.0<br>Mean (mm): 0.15, Phi Sorting: 0.67<br>Silt: 5.78% (SW-SM) |
| | 9 | | | | | |
| | 10 | | | | | |
| -45.8 | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | SAND, fine grained, quartz, little silt, trace organics, 2.0" clay layer from12.9'-13.1', 0.5" clay burrow @ 11.9', gray (5Y-5/1), (SW-SM). | | 4 | Sample #4 Depth = 14.0<br>Mean (mm): 0.17, Phi Sorting: 0.53<br>Silt: 2.44% (SP) |
| | 14 | | | | | |
| | 15 | | | | | |
| -51.1 | 16 | | | | | |
| | 17 | | Fine grained, quartz, little silt, little organics, gray (5Y-5/1), (SW-SM). | | 5 | Sample #5 Depth = 17.0<br>Mean (mm): 0.16, Phi Sorting: 0.49<br>Silt: 3.15% (SP) |
| -52.4 | | | | | | |
| | 18 | | No Recovery | | | |
| -53.7 | | | | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-11**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862781 Y=221972

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-11

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 19.0 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/07/03 1515

**17. ELEVATION TOP OF HOLE** -35.2 FT

**18. TOTAL CORE RECOVERY FOR BORING** 92%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.2 | 0 | | | | | |
| | 1 | | CLAY, some silt laminae, dark gray 5Y-4/1, (CL). | | 1 | Sample #1 Depth = 1.5<br>*Mean (mm): 0.006, Phi Sorting: 1.83<br>*Sand: 0.01%, Silt: 62.32%, Clay: 37.73% |
| | 2 | | | | | |
| | 3 | | | | | |
| -38.8 | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | SAND, fine grained, quartz, little silt, trace clay burrows, trace organics, trace silty laminae, 2.0" sandy clay layer from 3.8'-4.0', color darkens towards bottom, gray (5Y-5/1) to dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 6.5<br>Mean (mm): 0.12, Phi Sorting: 0.56<br>Silt: 6.87% (SW-SM) |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| -45.8 | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | SAND, fine grained, quartz, silty laminae, 2.0" clay layer @ 14.3', 3.0" clay layer @ 15.5', gray (5Y-5/1), (SW-SM). | | 3 | Sample #3 Depth = 11.5<br>Mean (mm): 0.11, Phi Sorting: 0.60<br>Silt: 12.37% (SM) |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| -51.9 | 17 | | SAND, fine grained, quartz, trace silt. olive gray (5Y-5/2) (SP) | | 4 | Sample #4 Depth = 17.1<br>Mean (mm): 0.12, Phi Sorting: 0.53<br>Silt: 4.99% (SW-SM) |
| -52.6 | 18 | | No Recovery | | | |
| -54.2 | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-16**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855695 Y=231398

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-16

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.5 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/09/03 0903

**17. ELEVATION TOP OF HOLE** -36.3 FT

**18. TOTAL CORE RECOVERY FOR BORING** 87%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36.3 | 0 | | | | | |
| | 1 | | CLAY, trace silty pockets dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.004, Phi Sorting: 1.66<br>*Sand: 0.02%, Silt: 51.60%, Clay: 48.34% |
| -38 | | | | | | |
| | 2 | | SAND, fine grained, quartz, some silt, dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 2.0<br>*Mean (mm): 0.059, Phi Sorting: 1.48<br>*Sand: 65.28%, Silt: 27.05%, Clay: 7.68% |
| -39.1 | 3 | | | | | Mean (mm): 0.09, Phi Sorting: 0.74<br>Silt: 34.37% (SM) |
| | 4 | | SAND, fine grained, quartz, little silt clay laminae from 3.9' - 4.2' olive gray (5Y-5/2), (SM). | | 3 | Sample #3 Depth = 4.5<br>Mean (mm): 0.13, Phi Sorting: 0.63<br>Silt: 5.41% (SW-SM) |
| -41.9 | 5 | | | | | |
| | 6 | | SAND, fine grained, quartz, some silt, olive gray (5Y-5/2), (SM). | | 2 | |
| -44.1 | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | fine grained, quartz, little silt, trace clay laminae, olive gray (5Y-5/2), (SM). | | 4 | Sample #4 Depth = 10.0<br>Mean (mm): 0.10, Phi Sorting: 0.49<br>Silt: 9.91% (SM) |
| -48.3 | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | SAND, fine grained, quartz, some silty laminae, little clay laminae, trace organics, olive gray (5Y-4/2), (SM-SC). | | 5 | Sample #5 Depth = 13.1<br>Mean (mm): 0.09, Phi Sorting: 0.67<br>Silt: 28.58% (SM) |
| -51.7 | 14 | | | | | |
| | 15 | | | | | |
| -52.5 | 16 | | SAND, fine grained, quartz, little silt, olive gray (5Y-5/2), (SW-SM). | | 6 | Sample #6 Depth = 15.8<br>Mean (mm): 0.11, Phi Sorting: 0.64<br>Silt: 10.98% (SM) |
| | 17 | | NO RECOVERY | | | |
| -54.8 | 18 | | | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-17**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855693 Y=231933

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-17

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 13.6 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/09/03 0903

**17. ELEVATION TOP OF HOLE** -36.0 FT

**18. TOTAL CORE RECOVERY FOR BORING** 100%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36 | 0 | | | | | |
| -37.1 | 1 | | SILTY CLAY, trace shell hash, very dark gray (5Y-3/1), (CL). | | 1 | Sample #1 Depth = 0.5<br>*Mean (mm): 0.007, Phi Sorting: 2.10<br>*Sand: 1.83%, Silt: 60.08%, Clay: 38.18% |
| -37.9 | | | CLAY, dark gray (5Y-4/1), (CL). | | 2 | |
| -38.6 | 2 | | CLAYEY SILT, very dark gray (5Y-3/1), (ML-CL). | | 3 | Sample #2 Depth = 1.5<br>*Mean (mm): 0.005, Phi Sorting: 1.84<br>*Sand: 0.06%, Silt: 58.78%, Clay: 41.09% |
| -39.9 | 3 | | SILT, some sand, dark gray (5Y-4/1), (ML). | | 4 | Sample #3 Depth = 2.3<br>*Mean (mm): 0.016, Phi Sorting: 2.00<br>*Sand: 17.02%, Silt: 67.37%, Clay: 15.63% |
| -42.4 | 4<br>5<br>6 | | SILTY SAND, trace clay laminae, dark gray (5Y-4/1), (SM). | | 5 | Sample #4 Depth = 3.0<br>*Mean (mm): 0.030, Phi Sorting: 1.67<br>*Sand: 38.29%, Silt: 52.02%, Clay: 9.67% |
| -43.4 | 7 | | CLAY, little silty sand layers/laminae, very dark gray (5Y-3/1), (CL). | | 1 | Sample #5 Depth = 5.4<br>*Mean (mm): 0.059, Phi Sorting: 1.17<br>*Sand: 61.58%, Silt: 33.65%, Clay: 4.69%<br>Mean (mm): 0.09, Phi Sorting: 0.57<br>Silt: 28.85% (SM) |
| -49.6 | 8<br>9<br>10<br>11<br>12<br>13 | | SAND, fine grained, some silt layers/laminae, 0.5" organic layer @ 11.2', gray (5Y-5/1), (SM). | | 6 | Sample #6 Depth = 12.1<br>Mean (mm): 0.11, Phi Sorting: 0.57<br>Silt: 8.43% (SW-SM) |
| | 14 | | End of Boring | | | |
| | 15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |

**HOLE NO. SPVC-03-17A**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

| | |
|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3855717 Y=231941 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-17A | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/09/03 0958 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -36.0 FT |
| **9. TOTAL DEPTH OF HOLE** 18.3 FT | **18. TOTAL CORE RECOVERY FOR BORING** 100% |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36 | 0 | | | | | |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | Jetted to 10.3' | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| -46.3 | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | SAND, fine grained, quartz, some silt layers/laminae, 0.5" organic layer @ 16.0', gray (5Y-5/1), (SM). | | 7 | Sample #7 Depth = 17.1<br>Mean (mm): 0.10, Phi Sorting: 0.57<br>Silt: 11.88% (SM) |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| -54.4 | 18 | | | | | |
| | 19 | | End of Boring<br>Expansion from 18.3 | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | *Data Analyzed by UNO |
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| | 24 | | | | | |

**HOLE NO. SPVC-03-18**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855340 Y=232227

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-18

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 14.9 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/09/03 1356

**17. ELEVATION TOP OF HOLE** -36.1 FT

**18. TOTAL CORE RECOVERY FOR BORING** 100%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36.1 | 0 | | | | | |
| -37.2 | 1 | | CLAY, soft, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 0.5<br>*Mean (mm): 0.008, Phi Sorting: 2.05<br>*Sand: 3.44%, Silt: 65.49%, Clay: 31.09% |
| -38 | 2 | | CLAYEY SAND, little clay, dark gray (5Y-4/1), (SC). | | 2 | Sample #2 Depth = 1.5<br>*Mean (mm): 0.032, Phi Sorting: 1.99<br>*Sand: 58.30%, Silt: 30.28%, Clay: 11.36% |
| -40 | 3 | | SAND, fine grained, quartz, little silt, trace clay laminae, dark gray (5Y-4/1), (SM). | | 3 | Mean (mm): 0.09, Phi Sorting: 0.62<br>Silt: 33.7% (SM) |
| -41.8 | 4 | | SANDY SILT, trace organic laminae, dark gray (5Y-4/1), (ML). | | 4 | Sample #4 Depth = 4.5<br>*Mean (mm): 0.047, Phi Sorting: 1.32<br>*Sand: 54.03%, Silt: 38.90%, Clay: 7.03%<br>Mean (mm): 0.07, Phi Sorting: 0.46<br>Silt: 56.52% (ML) |
| -46.1 | 10 | | SAND, fine grained, quartz, some silty laminae, trace organic laminae, olive gray (5Y-5/2), (SM). | | 3 | Sample #3 Depth = 7.5<br>Mean (mm): 0.08, Phi Sorting: 0.48<br>Silt: 33.69% (SM) |
| -51.1 | 15 | | SAND, fine grained, quartz, some silty laminae, trace organic laminae, olive gray (5Y-5/2), (SW-SM). | | 5 | Sample #5 Depth = 13.8<br>Mean (mm): 0.12, Phi Sorting: 0.47<br>Silt: 3.77% (SW-SM) |
| | 15 | | End of Boring<br>Expansion from 14.9' | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |

**HOLE NO. SPVC-03-18A**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855339 Y=232228

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-18A

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.4 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/09/03 1437

**17. ELEVATION TOP OF HOLE** -36.1 FT

**18. TOTAL CORE RECOVERY FOR BORING** 91%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -36.1 | 0 | | | | | |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | Jetted to 13.7' | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| -49.8 | 14 | | SAND, fine grained, quartz, trace silt, gray (5Y-5/1), (SW-SM). | | 6 | Sample #6 Depth=15.0<br>Mean (mm): 0.11, Phi Sorting: 0.50<br>Silt: 4.34% (SW-SM) |
| -51.9 | 15 | | | | | |
| | 16 | | fine grained, quartz, trace silty laminae, trace organics, gray (5Y-5/1), (SM). | | 7 | Sample #7 Depth=16.6<br>Mean (mm): 0.11, Phi Sorting: 0.50<br>Silt: 5.55% (SW-SM) |
| -54.2 | 17 | | | | | |
| -54.5 | 18 | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | *Data Analyzed by UNO |
| | 22 | | | | | |
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| | 24 | | | | | |

**HOLE NO. SPVC-03-21**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862698 Y=224860

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-21

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.7 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 0758

**17. ELEVATION TOP OF HOLE** -35.0 FT

**18. TOTAL CORE RECOVERY FOR BORING** 86%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35 | 0 | | | | | |
| | 1 | | Alternating CLAY and SANDY SILT layers, very dark gray (5Y-3/1), (ML-CL). | | 1 | Sample #1 Depth = 1.8<br>*Mean (mm): 0.013, Phi Sorting: 2.78<br>*Sand: 19.29%, Silt: 51.19%, Clay: 29.45% |
| -37.9 | 2 | | | | | |
| | 3 | | CLAY, with some silty sand layers, dark gray (5Y-4/1), (CL). | | 2 | Sample #2 Depth = 5.3<br>*Mean (mm): 0.007, Phi Sorting: 2.00<br>*Sand: 2.83%, Silt: 66.66%, Clay: 30.55% |
| -40.7 | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | SAND, fine grained, quartz, little silt, trace organics. 2" organic layer @ 8.8' - 9.0', gray (5Y-5/1), (SM). | | 3 | Sample #3 Depth = 8.0<br>Mean (mm): 0.12, Phi Sorting: 0.52<br>Silt: 5.14% (SW-SM) |
| -44.8 | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| -45.6 | 10 | | CLAY/SILT, little sand, dark gray (5Y-4/1), (ML-CL). | | 1 | |
| | 11 | | SAND, fine grained, quartz, little silt, gray (5Y-5/1), (SW-SM). | | 4 | Sample #4 Depth = 14.5<br>Mean (mm): 0.14, Phi Sorting: 0.43<br>Silt: 3.65% (SP) |
| -46.8 | 12 | | SAND, fine grained, quartz, little silt, little organics, dark gray (5Y-4/1), (SM). | | 3 | |
| -48.2 | 13 | | | | | |
| | 14 | | SAND, fine grained, quartz, little silt, trace clay burrows, gray (5Y-5/1), (SW-SM). | | 4 | |
| | 15 | | | | | |
| -51 | 16 | | | | | |
| | 17 | | NO RECOVERY | | | |
| | 18 | | | | | |
| -53.7 | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-23**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863027 Y=220636

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-23

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.9 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 0949

**17. ELEVATION TOP OF HOLE** -35.3 FT

**18. TOTAL CORE RECOVERY FOR BORING** 96%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.3 | 0 | | | | | |
| | 1 | | Alternating CLAY and SILT layers, trace shell hash, very dark gray (5Y-3/1), (ML-CL) | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.013, Phi Sorting: 2.58<br>*Sand: 19.09%, Silt: 52.86%, Clay: 28.03% |
| -37 | | | | | | |
| | 2 | | SAND, some silt, trace shell hash, very dark gray (5Y-3/1), (SM). | | 2 | Sample #2 Depth = 2.0<br>Mean (mm): 0.09, Phi Sorting: 0.61<br>Silt: 29.42% (SM) |
| -38 | | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | SAND, little silt, 2" clay layers @ 2.7' and 3.3', 3" clay layer @ 7.6', 1" clay layer @ 8.5', very dark gray (5Y-3/1), (SM). | | 3 | Sample #3 Depth = 5.0<br>Mean (mm): 0.11, Phi Sorting: 0.66<br>Silt: 15.18% (SM) |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| -44 | | | | | | |
| | 9 | | little silt, some organics, very dark gray (5Y-3/1), (SM). | | 4 | Sample #4 Depth = 9.0<br>Mean (mm): 0.11, Phi Sorting: 0.58<br>Silt: 9.69% (SM) |
| -44.8 | | | | | | |
| | 10 | | | | | |
| | 11 | | | | 5 | Sample #5 Depth = 10.0<br>Mean (mm): 0.12, Phi Sorting: 0.49<br>Silt: 4.18% (SW-SM) |
| | 12 | | | | | |
| | 13 | | SAND, fine grained, quartz, some silt, 2" clay layer @ 12.2', 1/2" clay layer @ 13.4', clay from 14.4'-14.7', 1.2" clay layer @ 15.3', clay from 16.2'-16.5', 2" clay pockets @ 16.7' and 17.9', dark gray (5Y-4/1), (SM). | | | |
| | 14 | | | | | |
| | 15 | | | | 6 | Sample #6 Depth = 14.0<br>Mean (mm): 0.13, Phi Sorting: 0.53<br>Silt: 5.50% (SW-SM) |
| | 16 | | | | | |
| | 17 | | | | | |
| -53.5 | 18 | | | | | |
| -54.2 | | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-24**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862629 Y=223158

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-24

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.8 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 1042

**17. ELEVATION TOP OF HOLE** -35.2 FT

**18. TOTAL CORE RECOVERY FOR BORING** 95%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.2 | 0 | | | | | |
| | 1 | | CLAY, some silt laminae/layers, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.006, Phi Sorting: 1.97<br>*Sand: 0.04%, Silt: 65.50%, Clay: 34.50% |
| -38.1 | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | SILT, little sand, dark gray (5Y-4/1), (ML). | | 2 | Sample #2 Depth = 4.0<br>Mean (mm): 0.10, Phi Sorting: 1.52<br>Silt: 79.19% (ML) |
| -41.8 | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | SAND, some silt, clay from 7.7' - 7.9', gray (5Y-5/1), (SM). | | 3 | Sample #3 Depth = 9.0<br>Mean (mm): 0.10, Phi Sorting: 0.58<br>Silt: 11.13% (SM) |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| -49.2 | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | little silty organic laminae, gray (5Y-5/1), (SM). | | 4 | Sample #4 Depth = 15.5<br>*Mean (mm): 0.11, Phi Sorting: 0.63<br>Silt: 13.26% (SM) |
| | 17 | | | | | |
| -53 | 18 | | | | | |
| -54 | | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-25**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863432 Y=223257

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-25

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.8 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 1126

**17. ELEVATION TOP OF HOLE** -34.5 FT

**18. TOTAL CORE RECOVERY FOR BORING** 95%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.5 | 0 | | | | | |
| | 1 | | SAND, little silt, little clay, trace shell hash, dark gray (5Y-4/1), (SM). | | 1 | |
| -36.1 | | | | | | |
| | 2 | | trace silt, 4" clay layer from 2.1' - 2.5', gray (5Y-5/1), (SW-SM). | | 2 | Sample #2 Depth = 3.0<br>*Mean (mm): 0.120, Phi Sorting: 0.52<br>*Sand: 91.08%, Silt: 7.19%, Clay: 1.65%<br>Mean (mm): 0.10, Phi Sorting: 0.53<br>Silt: 9.22%, (SM) |
| -38.1 | 3 | | | | | |
| | 4 | | CLAY, little silt and sand layers, dark gray (5Y-4/1), (CL). | | 3 | Sample #3 Depth = 5.0<br>*Mean (mm): 0.011, Phi Sorting: 2.28<br>*Sand: 11.44%, Silt: 62.53%, Clay: 26.08% |
| | 5 | | | | | |
| -41 | 6 | | | | | |
| | 7 | | SAND, trace silt, 4" clay layer 7.3' - 7.7', gray (5Y-5/1), (SM). | | 4 | Sample #4 Depth = 8.0<br>*Mean (mm): 0.128, Phi Sorting: 0.45<br>*Sand: 93.29%, Silt: 5.33%, Clay: 1.39%<br>Mean (mm): 0.11, Phi Sorting: 0.56<br>Silt: 10.09. (SM) |
| -43.5 | 8 | | | | | |
| | 9 | | CLAY, 2" silty sand layer 9.6' - 9.8', yellowish brown (10YR-5/6), (ML-CL). | | 3 | |
| -44.5 | 10 | | | | | |
| | 11 | | SAND, little silt, gray (5Y-5/1), (SM). | | 1 | |
| -46.5 | 12 | | | | | |
| -47.6 | 13 | | Alternating CLAY and SILTY SAND layers, dark gray (5Y-4/1) and gray (5Y-5/1), (SM-SC). | | 5 | Sample #5 Depth = 12.6<br>*Mean (mm): 0.118, Phi Sorting: 0.64<br>*Sand: 86.88%, Silt: 9.63%, Clay: 3.56%<br>Mean (mm): 0.09, Phi Sorting: 0.71<br>Silt: 31.19%, (SM) |
| | 14 | | | | | |
| | 15 | | SAND, little silt, trace organics, 0.5" sandy clay layer @ 15.3', gray (5Y-5/1), (SM). | | 1 | Sample #1 Depth = 14.0<br>*Mean (mm): 0.130, Phi Sorting: 0.42<br>*Sand: 93.99% , Silt: 4.42%, Clay: 1.65%<br>Mean (mm): 0.11, Phi Sorting: 0.51<br>Silt: 7.64% (SW-SM) |
| | 16 | | | | | |
| | 17 | | | | | |
| -52.3 | 18 | | | | | |
| -53.3 | | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-26**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3862579 Y=223816

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-26

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.6 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 1225

**17. ELEVATION TOP OF HOLE** -35.0 FT

**18. TOTAL CORE RECOVERY FOR BORING** 96%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35 | 0 | | | | | |
| -36 | 1 | | Alternating CLAY and SILT layers/laminae, dark gray (5Y-4/1) (ML-CL). | | 1 | Sample #1 Depth = 0.8<br>*Mean (mm): 0.009, Phi Sorting: 2.20<br>*Sand: 2.50%, Silt: 66.93%, Clay: 30.64% |
| | 2 | | SILT, 1" clay layer @ 3.1', dark gray (5Y-4/1), (ML). | | 2 | Sample #2 Depth = 2.0<br>Mean (mm): 0.08, Phi Sorting: 0.52<br>Silt:42.94% (ML) |
| -38.2 | 3 | | | | | |
| | 4 | | SAND, little silt, olive gray (5Y-5/2), (SM). | | 3 | Sample #3 Depth = 5.0<br>Mean (mm): 0.13, Phi Sorting: 0.53<br>Silt: 5.53% (SM) |
| -41.7 | 6 | | | | | |
| | 7 | | SAND, some silt, olive gray (5Y-5/2), (SM). | | 4 | Sample #4 Depth = 9.0<br>Mean (mm): 0.10, Phi Sorting: 0.71<br>Silt: 17.16% (SM) |
| -46.1 | 11 | | | | | |
| | 12 | | SAND, little silty laminae, olive gray (5Y-5/2), (SM). | | 5 | Sample #5 Depth = 13.0<br>Mean (mm): 0.18, Phi Sorting: 0.81<br>Silt: 6.21% (SW-SM) |
| -50.8 | 15 | | | | | |
| | 16 | | Alternating CLAY and SILT layers/laminae, dark gray (5Y-4/1), (ML-CL). | | 1 | |
| -52.8 | 17 | | | | | |
| -53.6 | 18 | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-27**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3863028 Y=224053

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-27

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 17.8 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/10/03 1308

**17. ELEVATION TOP OF HOLE** -34.5 FT

**18. TOTAL CORE RECOVERY FOR BORING** 88%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -34.5 | 0 | | | | | |
| | 1 | | CLAY, trace sandy laminae, 2" silty sand layer @ 1.1' - 1.3', gray (5Y-4/1) and light olive brown (10YR-5/6), (CL) | | 1 | Sample #1 Depth = 0.9<br>*Mean (mm): 0.008, Phi Sorting: 2.18<br>*Sand: 7.74%, Silt: 58.10%, Clay: 34.17% |
| -36.5 | 2 | | | | | |
| | 3 | | SAND, fine grained, quartz, little silt, dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.09, Phi Sorting: 0.56<br>Silt: 21.91% (SM) |
| -39.3 | 4 | | | | | |
| | 5 | | CLAY, trace silty sand, dark gray (5Y-4/1) and light olive brown (10YR-5/6), (CL). | | 1 | |
| -40.3 | 6 | | | | | |
| | 7 | | SAND, fine grained, quartz, little silt, 0.5" organic layer @ 8.0', gray (5Y-5/1), (SW-SM). | | 3 | Sample #3 Depth = 7.7<br>Mean (mm): 0.12, Phi Sorting: 0.53<br>Silt: 4.93% (SW-SM) |
| -43.6 | 8 | | | | | |
| | 9 | | Alternating CLAY and SILT layers, dark gray (5Y-4/1) and gray (5Y-5/1), (SC). | | 4 | Sample #4 Depth = 9.4<br>*Mean (mm): 0.005, Phi Sorting: 1.72<br>*Sand: 0.00%, Silt: 57.79%, Clay: 42.04% |
| -44.6 | 10 | | | | | |
| | 11 | | SAND, fine grained, quartz, little silt, 2" clay layer from 11.4'-11.6', 4" clay layer from 12.6'-13.0', 1" organic layer @ 10.3', trace organics, gray (5Y-5/1), (SW-SM). | | 5 | Sample #5 Depth = 11.0<br>Mean (mm): 0.14, Phi Sorting: 0.63<br>Silt: 5.41% (SW-SM) |
| | 12 | | | | | |
| | 13 | | | | 6 | Sample #6 Depth = 14.9<br>Mean (mm): 0.16, Phi Sorting: 0.59<br>Silt: 3.98% (SW-SM) |
| | 14 | | | | | |
| -50.2 | 15 | | | | | |
| | 16 | | NO RECOVERY | | | |
| -52.3 | 17 | | | | | |
| | 18 | | End of Boring | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

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|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3862766 Y=222525 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-28 | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/10/03 1416 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -35.2 FT |
| **9. TOTAL DEPTH OF HOLE** 18.8 FT | **18. TOTAL CORE RECOVERY FOR BORING** |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.2 | 0 | | | | | |
| | | | CLAY, soft, 1" sandy pocket @ 0.4', dark grayish brown (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 0.5<br>*Mean (mm): 0.008, Phi Sorting: 1.81<br>*Sand: 2.70%, Silt: 67.43%, Clay: 29.91% |
| -36.2 | 1 | | | | | |
| | 2 | | | | 2 | Sample #2 Depth = 4.0<br>Mean (mm): 0.11, Phi Sorting: 0.57<br>Silt: 11.98% (SM) |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | SAND, some silt, fine grained, quartz, trace shell hash, clay laminae from 7.2'-7.3', 8.7'-9.1' and 12.3'-12.4', trace organics, very dark gray (5Y-3/1), (SM). | | | |
| | 7 | | | | | |
| | 8 | | | | 3 | Sample #3 Depth = 8.0<br>Mean (mm): 0.12, Phi Sorting: 0.59<br>Silt: 11.44% (SM) |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| -47.6 | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | SAND, fine grained, quartz, trace silt, little organic layers, dark gray (5Y-4/1), (SP). | | 4 | Sample #4 Depth = 15.0<br>Mean (mm): 0.14, Phi Sorting: 0.46<br>Silt: 3.94% (SP) |
| | 16 | | | | | |
| | 17 | | | | | |
| -53.7 | 18 | | | | | |
| -54 | | | NO RECOVERY | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-29**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

| | |
|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3854692 Y=233110 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-29 | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/10/03 1517 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -35.8 FT |
| **9. TOTAL DEPTH OF HOLE** 15.6 FT | **18. TOTAL CORE RECOVERY FOR BORING** 97% |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.8 | 0 | | | | | |
| -36.5 | | | CLAY, soft, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 0.4<br>*Mean (mm): 0.010, Phi Sorting: 2.03<br>*Sand: 5.59%, Silt: 68.46%, Clay: 25.95% |
| | 1 | | Alternating SILT and CLAY layers, dark gray (5Y-4/1), (ML-CL). | | 2 | |
| -37.8 | 2 | | | | | Sample #2 Depth = 1.2<br>*Mean (mm): 0.008, Phi Sorting: 2.25<br>*Sand: 5.67%, Silt: 61.86%, Clay: 32.30% |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | SAND, some silt, dark gray (5Y-4/1), (SM). | | 3 | Sample #3 Depth = 5.0<br>Mean (mm): 0.09, Phi Sorting: 0.62<br>Silt: 28.59% (SM) |
| | 6 | | | | | |
| | 7 | | | | | |
| -44 | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | SAND, little silt, 1" clay layer with organics @ 10.8', dark gray (5Y-4/1), (SM). | | 4 | Sample #4 Depth = 10.0<br>Mean (mm): 0.09, Phi Sorting: 0.51<br>Silt: 12.57% (SM) |
| | 11 | | | | | |
| -47.8 | 12 | | | | | |
| | | | CLAY, with trace organics, very dark gray (5Y-3/1), (CL). | | 1 | |
| | 13 | | SAND, fine grained, quartz, little silt, 1" organic layer @ 13.1', dark gray (5Y-4/1), (SM). | | 5 | Sample #5 Depth = 14.0<br>Mean (mm): 0.12, Phi Sorting: 0.59<br>Silt: 5.54% (SW-SM) |
| | 14 | | | | | |
| -50.9 | 15 | | | | | |
| -51.4 | | | NO RECOVERY | | | |
| | 16 | | End of Boring | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-29A**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

| | |
|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3854691 Y=233114 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-29A | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/10/03 1559 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -35.8 FT |
| **9. TOTAL DEPTH OF HOLE** 18.7 FT | **18. TOTAL CORE RECOVERY FOR BORING** 95% |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.8 | 0 | | | | | |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | Jetted TO 14.5' | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| -50.3 | 15 | | SAND, some silt, 2" clayey layer @ 15.4', very dark gray (5Y-3/1), (SM). | | 6 | Sample #6 Depth = 15.0<br>Mean (mm): 0.13, Phi Sorting: 0.79<br>Silt: 7.84% (SM) |
| -51.5 | 16 | | | | | |
| | 17 | | SILTY SAND, dark gray (5Y-4/1), (SM). | | 29S#4 | |
| -54.3 | 18 | | | | | |
| -54.8 | 19 | | NO RECOVERY<br>End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-30**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:** **SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855322 Y=233895

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-30

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.8 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/13/03 1057

**17. ELEVATION TOP OF HOLE** -35.4 FT

**18. TOTAL CORE RECOVERY FOR BORING** 89%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.4 | 0 | | | | | |
| | 1 | | SAND, little silt, little clay, 2" soft clay at top, very dark gray (5Y-3/1), (SM-SC). | | 1 | Sample #1 Depth = 0.7<br>*Mean (mm): 0.038, Phi Sorting: 0.66<br>*Sand: 70.54%, Silt: 19.83%, Clay: 9.60% |
| -36.8 | | | | | | |
| | 2 | | SAND, little silt, 2" clay layer @ 2.8', very dark gray (5Y-3/1), (SM). | | 2 | Mean (mm): 0.10, Phi Sorting: 0.66<br>Silt: 21.34% (SM)<br>Sample #2 Depth = 2.0 |
| -38.2 | 3 | | | | | Mean (mm): 0.10, Phi Sorting: 0.61<br>Silt: 12.59% (SM) |
| | 4 | | Some silt, dark gray (5Y-4/1), (SM). | | 3 | Sample #3 Depth = 4.0<br>Mean (mm): 0.11, Phi Sorting: 0.65<br>Silt: 14.72% (SM) |
| -40.1 | 5 | | | | | |
| | 6 | | SAND, fine grained, quartz, trace silt, gray (5Y-5/1), (SW-SM). | | 4 | Sample #4 Depth = 8.0<br>Mean (mm): 0.14, Phi Sorting: 0.40<br>Silt: 3.14% (SP) |
| | 7 | | | | | |
| -43.8 | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | SAND, fine grained, quartz, some silt, clay laminae 8.8'- 9.2', clay laminae @ 10.4' and 10.5', gray (5Y-5/1), (SM). | | 5 | Sample #5 Depth = 11.0<br>Mean (mm): 0.11, Phi Sorting: 0.76<br>Silt: 17.14% (SM) |
| | 11 | | | | | |
| -47.6 | 12 | | | | | |
| | | | CLAY, dark gray (5Y-4/1), (CL). | | 6 | |
| -48.9 | 13 | | SAND, fine grained, quartz, little silt, gray (5Y-5/1), (SW-SM). | | 7 | Sample #6 Depth = 14.0<br>*Mean (mm): 0.007, Phi Sorting: 2.17<br>*Sand: 2.97%, Silt: 62.39%, Clay: 34.66% |
| -49.7 | 14 | | CLAY, trace silty laminae, gray (5Y-5/1), (CL). | | 6 | |
| | 15 | | SAND, fine grained, quartz, little silt, 1" partially lithified clay nodule @ 16.0', gray (5Y-5/1), (SW-SM). | | 7 | Sample #7 Depth = 15.5<br>Mean (mm): 0.17, Phi Sorting: 0.50<br>Silt: 1.75% (SP) |
| -52.1 | 16 | | | | | |
| | 17 | | NO RECOVERY | | | |
| -54.2 | 18 | | | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-31**

## DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855838 Y=234127

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-31

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 19.0 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/13/03 1155

**17. ELEVATION TOP OF HOLE** -35.0 FT

**18. TOTAL CORE RECOVERY FOR BORING** 88%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35 | 0 | | | | | |
| | 1 | | CLAY, little silt, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.008, Phi Sorting: 2.40<br>*Sand: 8.61%, Silt: 55.89%, Clay: 35.60% |
| -36.7 | | | | | | |
| -37.4 | 2 | | SAND, little silt, some clay, very dark gray (5Y-3/1), (SC). | | 2 | Sample #2 Depth = 2.0<br>*Mean (mm): 0.081, Phi Sorting: 0.85<br>*Sand: 75.33%, Silt: 20.21%, Clay: 4.40%<br>Mean (mm): 0.09, Phi Sorting: 0.61<br>Silt: 26.43% (SM) |
| -37.9 | | | CLAY, trace shell hash, little silt, dark gray (5Y-4/1), (CL). | | 1 | |
| | 3 | | | | | |
| | 4 | | SILTY SAND, trace organics, dark gray (5Y-4/1), (SM). | | 3 | Sample #3 Depth = 5.5<br>*Mean (mm): 0.112, Phi Sorting: 0.57<br>*Sand: 88.63%, Silt: 9.41%, Clay: 1.92%<br>Mean (mm): 0.10, Phi Sorting: 0.57<br>Silt: 12.95% (SM) |
| | 5 | | | | | |
| | 6 | | | | | |
| -41.6 | | | | | | |
| | 7 | | | | | |
| | 8 | | SAND, fine grained, quartz, little silt, trace clay borrows, trace organics, gray (5Y-5/1), (SW-SM) | | 4 | Sample #4 Depth = 9.0<br>Mean (mm): 0.17, Phi Sorting: 0.46<br>Silt: 2.59% (SP) |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | 5 | Sample #5 Depth = 11.0<br>Mean (mm): 0.14, Phi Sorting: 0.55<br>Silt: 2.64% (SP) |
| | 12 | | | | | |
| -48 | | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | SAND, fine grained, quartz, little silt, little silt/clay layers, gray (5Y-5/1), (SM) | | 6 | Sample #6 Depth = 14.0<br>Mean (mm): 0.11, Phi Sorting: 0.72<br>Silt: 14.64% (SM) |
| | 16 | | | | | |
| | 17 | | | | | |
| -52.8 | | | | | | |
| | 18 | | NO RECOVERY | | | |
| -54 | | | | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-32**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

| | |
|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3855117 Y=233418 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-32 | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/13/03 1312 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -35.6 FT |
| **9. TOTAL DEPTH OF HOLE** 18.8 FT | **18. TOTAL CORE RECOVERY FOR BORING** 100% |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.6 | | | | | | |
| -36.1 | 0 | | SILTY CLAY, very dark gray (5Y-3/1), (ML-CL). | | 1 | Sample #1 Depth =0.3<br>*Mean (mm): 0.011, Phi Sorting: 2.52<br>*Sand: 16.67%, Silt: 53.86%, Clay: 29.55% |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | SAND, some silt, trace shell hash, very dark gray (5Y-3/1), (SM). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.09, Phi Sorting: 0.59<br>Silt: 22.06% (SM) |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| -42.4 | 7 | | | | | |
| | 8 | | SAND, little silt, very dark gray (5Y-3/1), (SM). | | 3 | Sample #3 Depth = 8.0<br>Mean (mm): 0.12, Phi Sorting: 0.50<br>Silt: 3.94% (SW-SM) |
| | 9 | | | | | |
| -45.8 | 10 | | | | | Sample #4 Depth = 10.4<br>*Mean (mm): 0.005, Phi Sorting: 1.88<br>*Sand: 0.25%, Silt: 54.78%, Clay: 44.98% |
| | | | CLAY, some silty laminae, very dark gray (5Y-3/1), (ML-CL). | | 4 | |
| | 11 | | | | | |
| | 12 | | SAND, fine grained, quartz, little silt, dark gray (5Y-4/1), (SW-SM). | | 5 | Sample #5 Depth = 11.5<br>Mean (mm): 0.15, Phi Sorting: 0.53<br>Silt: 3.33% (SP) |
| -48.6 | 13 | | | | | |
| | 14 | | Fine grained, quartz, little silt, trace clay laminae, trace organics, dark gray (5Y-4/1), (SW-SM). | | 6 | Sample #6 Depth = 15.0<br>Mean (mm): 0.16, Phi Sorting: 0.53<br>Silt:2.83% (SP) |
| | 15 | | | | | |
| -52 | 16 | | | | | |
| | 17 | | SAND, little clay, dark gray (5Y-4/1), (SC). | | 3 | |
| -53.4 | 18 | | SAND, fine grained, quartz, little silt, dark gray (5Y-4/1), (SW-SM). | | 5 | |
| -55.1 | 19 | | | | | |
| | 20 | | End of Boring<br>Expansion from 18.8' | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-34**

# DRILLING LOG

**DIVISION:**

**INSTALLATION:**

**SHEET 1 of 1**

**1. PROJECT** BARATARIA

**2. LOCATION** (Coordinates or Station) X=3855068 Y=232911

**3. DRILLING AGENCY:** Eckerd College

**4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-34

**5. NAME OF DRILLER** Gregg Brooks, PhD

**6. DIRECTION OF HOLE** VERTICAL

**7. THICKNESS OF BURDEN** 0.0 FT

**8. DEPTH DRILLED INTO ROCK** N/A

**9. TOTAL DEPTH OF HOLE** 18.0 FT

**10. SIZE AND TYPE OF BIT** 3"

**11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88

**12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer

**13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0

**14. TOTAL NO. OF CORE BOXES** 1

**15. ELEVATION GROUND WATER**

**16. DATE HOLE** Started Completed 06/14/03 1551

**17. ELEVATION TOP OF HOLE** -35.9 FT

**18. TOTAL CORE RECOVERY FOR BORING** 98%

**19. SIGNATURE OF GEOLOGIST** ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.9 | 0 | | | | | |
| | 1 | | Alternating SILT and CLAY laminae, very dark gray (5Y-3/1), (ML-CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.019, Phi Sorting: 1.58<br>*Sand: 13.16%, Silt: 75.08%, Clay: 11.77% |
| -38.1 | 2 | | | | | Sample #2 Depth = 2.5<br>*Mean (mm): 0.037, Phi Sorting: 1.47<br>*Sand: 45.34%, Silt: 45.31%, Clay: 9.35% |
| -39.1 | 3 | | SILT, very dark gray (5Y-3/1), (ML). | | 2 | |
| | | | CLAY, gray (5Y-3/1), (CL). | | 3 | |
| | 4 | | | | | Sample #3 Depth = 3.4<br>*Mean (mm): 0.014, Phi Sorting: 2.15<br>*Sand: 16.56%, Silt: 65.08%, Clay: 18.34% |
| | 5 | | SILTY SAND, little clay laminae, dark gray (5Y-4/1), (ML). | | 4 | Sample #4 Depth = 5.0<br>*Mean (mm): 0.066, Phi Sorting: 0.97<br>*Sand: 59.48%, Silt: 36.74%, Clay: 3.77%<br>Mean (mm): 0.08, Phi Sorting: 0.56<br>Silt: 53.51% (ML) |
| -42.3 | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | SAND, trace silt, trace clay laminae, dark gray (5Y-4/1), (SM). | | 5 | Sample #5 Depth = 8.0<br>Mean (mm): 0.09, Phi Sorting: 0.53<br>Silt: 12.75% (SM) |
| | 9 | | | | | |
| -46.3 | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | SILTY SAND, trace organics, gray (5Y-5/1), (SM). | | 6 | Sample #6 Depth = 12.5<br>Mean (mm): 0.10, Phi Sorting: 0.54<br>Silt: 9.93% (SM) |
| | 13 | | | | | |
| -49.7 | 14 | | | | | |
| | 15 | | SAND, fine grained, quartz, little silt, organic laminae @ 17.2', gray (5Y-5/1), (SM). | | 7 | Sample #7 Depth = 16.0<br>Mean (mm): 0.14, Phi Sorting: 0.63<br>Silt: 5.01% (SW-SM) |
| | 16 | | | | | |
| | 17 | | | | | |
| -53.5 | | | | | | |
| -53.9 | 18 | | NO RECOVERY | | | |
| | | | End of Boring | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. SPVC-03-35**

**DRILLING LOG** | **DIVISION:** | **INSTALLATION:** | **SHEET 1 of 1**

| | |
|---|---|
| **1. PROJECT** BARATARIA | **10. SIZE AND TYPE OF BIT** 3" |
| **2. LOCATION** (Coordinates or Station) X=3863189 Y=221706 | **11. DATUM FOR ELEVATION SHOWN** (TBM or MSL) NAVD 88 |
| **3. DRILLING AGENCY:** Eckerd College | **12. MANUFACTURER'S DESIGNATION OF DRILL** Rossfelder P-3 Electric Vibracorer |
| **4. HOLE NO.** (As shown on drawing title and file number) SPVC-03-35 | **13. TOT NO. OF OVERBURDEN SAMPLES TAKEN** Disturbed: 0 Undisturbed: 0 |
| **5. NAME OF DRILLER** Gregg Brooks, PhD | **14. TOTAL NO. OF CORE BOXES** 1 |
| **6. DIRECTION OF HOLE** VERTICAL | **15. ELEVATION GROUND WATER** |
| **7. THICKNESS OF BURDEN** 0.0 FT | **16. DATE HOLE** Started Completed 06/13/03 1703 |
| **8. DEPTH DRILLED INTO ROCK** N/A | **17. ELEVATION TOP OF HOLE** -35.1 FT |
| **9. TOTAL DEPTH OF HOLE** 18.8 FT | **18. TOTAL CORE RECOVERY FOR BORING** 92% |
| | **19. SIGNATURE OF GEOLOGIST** ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -35.1 | 0 | | | | | |
| | 1 | | SANDY SILT, little clay, trace shell hash, dark gray (5Y-4/1), (ML). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.007, Phi Sorting: 2.10<br>*Sand: 6.31%, Silt: 53.81%, Clay: 39.76% |
| -36.8 | 2 | | | | | |
| | 3 | | SAND, trace silt, trace organics, trace clay, dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.12, Phi Sorting: 0.57<br>Silt: 8.2% (SW-SM) |
| | 4 | | | | | |
| | 5 | | | | | |
| -40.9 | 6 | | | | | |
| | 7 | | SAND, fine grained, quartz, 1" organic layer @ 7.3', little clay laminae @ 7.8', gray (5Y-5/1), (SW-SM). | | 3 | Sample #3 Depth = 6.8<br>Mean (mm): 0.12, Phi Sorting: 0.45<br>Silt: 2.51% (SP) |
| -42.9 | 8 | | | | | |
| | 9 | | SAND, fine grained, quartz, little silt, 1.5" clay layer @ 9.0', 1" clay layer @ 9.8', 3" clayey silt layer @ 11.0', gray (5Y-5/1), (SM). | | 4 | Sample #4 Depth = 8.2<br>Mean (mm): 0.12, Phi Sorting: 0.55<br>Silt: 6.45% (SW-SM) |
| | 10 | | | | | |
| -46.1 | 11 | | | | | |
| | 12 | | Trace silt, trace organics, gray (5Y-5/1), (SM). | | 2 | |
| | 13 | | | | | |
| -49.3 | 14 | | | | | |
| | 15 | | SAND, fine grained, quartz, little silt, little organics, 1" clay layer at 15.5' and at base, gray (5Y-5/1), (SW-SM). | | 5 | Sample #5 Depth = 16.0<br>Mean (mm): 0.16, Phi Sorting: 0.47<br>Silt: 3.51% (SP) |
| | 16 | | | | | |
| -52.4 | 17 | | | | | |
| | 18 | | NO RECOVERY | | | |
| -53.9 | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**EMPIRE**
**2002 VIBRACORE LOGS**

HOLE NO. EMVC-02-05

**DRILLING LOG** | DIVISION: | INSTALLATION: | SHEET 1 of 1

| | |
|---|---|
| 1. PROJECT BARATARIA | 10. SIZE AND TYPE OF BIT 3" |
| 2. LOCATION (Coordinates or Station) X=3837493 Y=270868 | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NAVD 88 |
| 3. DRILLING AGENCY: Eckerd College | 12. MANUFACTURER'S DESIGNATION OF DRILL Rossfelder P-3 Electric Vibracorer |
| 4. HOLE NO. (As shown on drawing title and file number) EMVC-02-05 | 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0 |
| 5. NAME OF DRILLER Gregg Brooks, PhD | 14. TOTAL NO. OF CORE BOXES 1 |
| 6. DIRECTION OF HOLE VERTICAL | 15. ELEVATION GROUND WATER |
| 7. THICKNESS OF BURDEN 0.0 FT | 16. DATE HOLE Started 08/29/02 12:26 Completed |
| 8. DEPTH DRILLED INTO ROCK N/A | 17. ELEVATION TOP OF HOLE -14.9 FT |
| 9. TOTAL DEPTH OF HOLE 18.8 FT | 18. TOTAL CORE RECOVERY FOR BORING 77% |
| | 19. SIGNATURE OF GEOLOGIST ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -14.9 | 0 | | | | | |
| -16 | 1 | | CLAY, soft, trace shell hash, 1" fine grained sand layer at 0.3' and 1.0' olive gray (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 0.5<br>*Mean (mm): 0.012, Phi Sorting: 2.2<br>*Sand 13.5%, Silt 62.3%, Clay 24.2% |
| | 2 | | | | | |
| | 3 | | 1" layer of very fine grained sand @ 2.7', 2" layer of fine grained sand @ 3.4' and 4.3', 4" x 1/4" long sand filled burrow @ 3.7', olive gray (5Y-4/2), (CL). | | 2 | Sample #2 Depth = 3.1<br>*Mean (mm): 0.006, Phi Sorting: 2.1<br>*Sand 9.7%, Silt 47.6%, Clay 42.7% |
| | 4 | | | | | |
| | 5 | | | | | |
| -21 | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | Alternating CLAY and very fine grained SAND laminae, 1/2" layer of leafy organics @ 6.9' and 8.6', dark gray (5Y-4/1), (SC). | | 3 | Sample #3 Depth = 7.4<br>*Mean (mm): 0.02, Phi Sorting: 2.3<br>*Sand 26.1%, Silt 58.0%, Clay 15.9% |
| | 9 | | | | | |
| -25 | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | CLAY, trace sandy laminae, trace organics, dark gray (5Y-4/1), (CL). | | 4 | Sample #4 Depth = 12.6<br>*Mean (mm): 0.012, Phi Sorting: 2.2<br>*Sand 13.6%, Silt 63.6%, Clay 22.9% |
| | 13 | | | | | |
| -29.4 | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | No Recovery | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| -33.7 | 19 | | | | | |
| | 20 | | End of Boring | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. EMVC-02-17**

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

| | |
|---|---|
| 1. PROJECT BARATARIA | 10. SIZE AND TYPE OF BIT 3" |
| 2. LOCATION (Coordinates or Station) X=3831941 Y=270239 | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NAVD 88 |
| 3. DRILLING AGENCY: Eckerd College | 12. MANUFACTURER'S DESIGNATION OF DRILL Rossfelder P-3 Electric Vibracorer |
| 4. HOLE NO. (As shown on drawing title and file number) EMVC-02-17 | 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0 |
| 5. NAME OF DRILLER Gregg Brooks, PhD | 14. TOTAL NO. OF CORE BOXES 1 |
| 6. DIRECTION OF HOLE VERTICAL | 15. ELEVATION GROUND WATER |
| 7. THICKNESS OF BURDEN 0.0 FT | 16. DATE HOLE Started 09/05/02 08:59 Completed |
| 8. DEPTH DRILLED INTO ROCK N/A | 17. ELEVATION TOP OF HOLE -20.1 FT |
| 9. TOTAL DEPTH OF HOLE 19.0 FT | 18. TOTAL CORE RECOVERY FOR BORING 44 % |
| | 19. SIGNATURE OF GEOLOGIST ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -20.1 | 0 | | | | | |
| -21.3 | 1 | | CLAY, soft, some very fine grained sand laminae, trace shell hash, olive gray (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 0.8<br>*Mean (mm): 0.016, Phi Sorting: 2.4<br>*Sand 20.9%, Silt 58.5%, Clay 20.6 |
| | 2 | | SAND, fine to very fine grained, quartz, trace silt, trace shell hash, 1" shelly sand layer @ 4.0', olive gray (5Y-4/2), (SP). | | 2 | Sample #2 Depth = 3.0<br>Mean (mm): 0.13, Phi Sorting: 0.64<br>Silt: 5.8% (SW-SM) |
| -24 | 4 | | | | | |
| | 5 | | SANDY SILT, some silty clay layers, little organic laminae, olive gray (5Y-4/2), (SC). | | 3 | Sample #3 Depth = 6.0<br>*Mean (mm): 0.024, Phi Sorting: 3.0<br>*Sand 35.9%, Silt 43.7%, Clay 20.3% |
| -28.4 | 8 | | | | | |
| | 9 | | No Recovery | | | |
| -39.1 | 19 | | End of Boring | | | |
| | 20 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
| | 24 | | | | | |

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

1. PROJECT: BARATARIA

2. LOCATION (Coordinates or Station): X=3831927 Y=270212

3. DRILLING AGENCY: Eckerd College

4. HOLE NO. (As shown on drawing title and file number): EMVC-02-17A

5. NAME OF DRILLER: Gregg Brooks, PhD

6. DIRECTION OF HOLE: VERTICAL

7. THICKNESS OF BURDEN: 0.0 FT

8. DEPTH DRILLED INTO ROCK: N/A

9. TOTAL DEPTH OF HOLE: 18.4 FT

10. SIZE AND TYPE OF BIT: 3"

11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88

12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer

13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0

14. TOTAL NO. OF CORE BOXES: 1

15. ELEVATION GROUND WATER:

16. DATE HOLE Started: 09/05/02 10:15 Completed:

17. ELEVATION TOP OF HOLE: -20.1 FT

18. TOTAL CORE RECOVERY FOR BORING: 100 %

19. SIGNATURE OF GEOLOGIST: ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -20.1 | 0 | | | | | |
| | 1 | | Jet | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| -27.1 | 7 | | | | | |
| | 8 | | SAND, very fine grained, quartz, little silt, some clay, dark gray (5Y-4/1), (SM-SC). | | 1 | Sample #1 Depth = 9.5<br>*Mean (mm): 0.026, Phi Sorting: 2.9<br>*Sand 32.6% Silt 49.3% Clay 18.2% |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| -32.3 | 12 | | | | | |
| -33.4 | 13 | | CLAY, trace very fine grained sand laminae, olive gray (5Y-4/2), (CL). | | 2 | Sample #2 Depth = 12.5<br>*Mean (mm): 0.009, Phi Sorting: 2.2<br>*Sand 9.1% Silt 62.8% Clay 28.2% |
| | 14 | | | | | |
| | 15 | | SILTY CLAY, some very fine grained quartz sand, dark gray (5Y-4/1), (SM-SC). | | 1 | |
| | 16 | | | | | |
| -37.3 | 17 | | | | | |
| | 18 | | CLAY, trace very fine grained sand laminae, olive gray (5Y-4/2), (CL). | | 2 | |
| -39 | 19 | | | | | |
| | 20 | | End of Boring<br>Expansion from 18.4'. | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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HOLE NO. EMVC-02-18

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

1. PROJECT: BARATARIA

2. LOCATION (Coordinates or Station): X=3832701 Y=271426

3. DRILLING AGENCY: Eckerd College

4. HOLE NO. (As shown on drawing title and file number): EMVC-02-18

5. NAME OF DRILLER: Gregg Brooks, PhD

6. DIRECTION OF HOLE: VERTICAL

7. THICKNESS OF BURDEN: 0.0 FT

8. DEPTH DRILLED INTO ROCK: N/A

9. TOTAL DEPTH OF HOLE: 19.0 FT

10. SIZE AND TYPE OF BIT: 3"

11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88

12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer

13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0

14. TOTAL NO. OF CORE BOXES: 1

15. ELEVATION GROUND WATER:

16. DATE HOLE Started / Completed: 09/05/02 10:49

17. ELEVATION TOP OF HOLE: -18.2 FT

18. TOTAL CORE RECOVERY FOR BORING: 94 %

19. SIGNATURE OF GEOLOGIST: ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -18.2 | 0 | | | | | |
| -19.2 | 1 | | CLAY, soft, trace organics, olive gray (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 0.5<br>*Mean (mm): 0.007, Phi Sorting: 1.5<br>*Sand 0.0% Silt 73.0% Clay 26.9% |
| -19.8 | | | SILTY SAND, very fine grained, quartz, trace shell hash, dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 1.3<br>*Mean (mm): 0.072, Phi Sorting: 0.8<br>*Sand 66.6% Silt 29.5% Clay 3.9% |
| -20.5 | 2 | | CLAY, trace very fine grained sand laminae, olive gray (5Y-4/2), (CL). | | 1 | |
| -21.1 | | | SILTY SAND, very fine grained, quartz, 1" organic layer @ 2.2', 1" clay layer @ 2.8', dark gray (5Y-4/1), (SM). | | 2 | Mean (mm): 0.07, Phi Sorting: 0.52<br>Silt: 54.0% (ML) |
| | 3 | | | | | |
| | 4 | | SAND, fine to very fine grained, quartz, some silt laminae, trace clay laminae, gray (5Y-5/1), (SM). | | 3 | Sample #3 Depth = 4.0<br>Mean (mm): 0.12, Phi Sorting: 0.70<br>Silt: 8.45% (SW-SM) |
| -24.4 | 5 | | | | | |
| -25.2 | 6 | | CLAY, some silt, trace organics, dark gray (5Y-4/1), (CL). | | 4 | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | SAND, very fine grained, quartz, some silt, trace organics, gray (5Y-5/1), (SM). | | 5 | Sample #5 Depth = 8.5<br>Mean (mm): 0.08, Phi Sorting: 0.57<br>Silt: 38.46% (SM) |
| -28.6 | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | SILTY CLAY, trace very fine grained sand laminae, dark gray (5Y-4/1), (CL). | | 4 | Sample #4 Depth = 11.0<br>*Mean (mm): 0.013, Phi Sorting: 2.3<br>*Sand 17.4% Silt 61.4% Clay 21.3% |
| | 14 | | | | | |
| -32.8 | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | CLAY, trace silty sand laminae, dark gray (5Y-4/1), (CL). | | 1 | |
| -36 | 18 | | | | | |
| -37.2 | 19 | | No Recovery | | | |
| | | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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**HOLE NO. EMVC-02-20**

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

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|---|---|
| 1. PROJECT BARATARIA | 10. SIZE AND TYPE OF BIT 3" |
| 2. LOCATION (Coordinates or Station) X=3835900 Y=271017 | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NAVD 88 |
| 3. DRILLING AGENCY: Eckerd College | 12. MANUFACTURER'S DESIGNATION OF DRILL Rossfelder P-3 Electric Vibracorer |
| 4. HOLE NO. (As shown on drawing title and file number) EMVC-02-20 | 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0 |
| 5. NAME OF DRILLER Gregg Brooks, PhD | 14. TOTAL NO. OF CORE BOXES 1 |
| 6. DIRECTION OF HOLE VERTICAL | 15. ELEVATION GROUND WATER |
| 7. THICKNESS OF BURDEN 0.0 FT | 16. DATE HOLE Started Completed 09/05/02 13:54 |
| 8. DEPTH DRILLED INTO ROCK N/A | 17. ELEVATION TOP OF HOLE -16.1 FT |
| 9. TOTAL DEPTH OF HOLE 19.0 FT | 18. TOTAL CORE RECOVERY FOR BORING 83 % |
| | 19. SIGNATURE OF GEOLOGIST ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -16.1 | 0 | | | | | |
| -17.7 | 1 | | CLAY, soft from 0.0' to 0.7', olive gray (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.011, Phi Sorting: 2.3<br>*Sand 13.5% Silt 60.8% Clay 25.7% |
| -20.1 | 2<br>3<br>4 | | SILTY CLAY, some very fine grained sand, dark gray (5Y-4/1), (SM-SC). | | 2 | Sample #2 Depth = 2.5<br>*Mean (mm): 0.016, Phi Sorting: 2.4<br>*Sand 20.6% Silt 59.8% Clay 19.7% |
| -22.4 | 5<br>6 | | SAND, fine to very fine grained, quartz, trace silt, olive gray (5Y-4/2), (SP). | | 3 | Sample #3 Depth = 5.0<br>Mean (mm): 0.16, Phi Sorting: 0.51<br>Silt: 2.89% (SP) |
| -23.9 | 7 | | SAND, fine grained, quartz, trace silt, gray (5Y-5/1), (SP). | | 4 | Sample #4 Depth = 6.8<br>Mean (mm): 0.15, Phi Sorting: 0.69<br>Silt: 5.02% (SW-SM) |
| -31.8 | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15 | | SILTY CLAY, some very fine grained sand, dark gray (5Y-4/1), (SM-SC). | | 5 | Sample #5 Depth = 13.0<br>*Mean (mm): 0.022, Phi Sorting: 2.5<br>*Sand 30.0% Silt 53.5% Clay 16.5% |
| -35.1 | 16<br>17<br>18 | | No Recovery | | | |
| | 19 | | End of Boring | | | |
| | 20<br>21<br>22<br>23<br>24 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

| | |
|---|---|
| 1. PROJECT: BARATARIA | 10. SIZE AND TYPE OF BIT 3" |
| 2. LOCATION (Coordinates or Station): X=3835948 Y=270980 | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88 |
| 3. DRILLING AGENCY: Eckerd College | 12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer |
| 4. HOLE NO. (As shown on drawing title and file number): EMVC-02-20A | 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0 |
| 5. NAME OF DRILLER: Gregg Brooks, PhD | 14. TOTAL NO. OF CORE BOXES 1 |
| 6. DIRECTION OF HOLE: VERTICAL | 15. ELEVATION GROUND WATER |
| 7. THICKNESS OF BURDEN 0.0 FT | 16. DATE HOLE Started: 09/15/02 09:47 Completed: |
| 8. DEPTH DRILLED INTO ROCK N/A | 17. ELEVATION TOP OF HOLE -16.1 FT |
| 9. TOTAL DEPTH OF HOLE 18.4 FT | 18. TOTAL CORE RECOVERY FOR BORING 93 % |
| | 19. SIGNATURE OF GEOLOGIST ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -16.1 | 0 | | | | | |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | JET | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| -30.1 | 14 | | | | | |
| | 15 | | Alternating SILT and CLAY layers, olive gray (5Y-4/2), (ML). | | 1 | Sample #1 Depth = 15.5<br>*Mean (mm): 0.017 , Phi Sorting: 2.6<br>*Sand 26.5%, Silt 53.4%, Clay 20.1% |
| -33.1 | 16 | | | | | |
| | 17 | | SAND, very fine grained, quartz, little silt, olive gray (5Y-4/2), (SM). | | 2 | Sample #2 Depth = 17.5<br>Mean (mm): 0.09 , Phi Sorting: 0.66<br>Silt: 20.94% (SM) |
| -34.2 | 18 | | | | | |
| -34.5 | | | No Recovery | | | |
| | 19 | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |
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# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

1. PROJECT: BARATARIA

2. LOCATION (Coordinates or Station): X=3834858 Y=270176

3. DRILLING AGENCY: Eckerd College

4. HOLE NO. (As shown on drawing title and file number): EMVC-02-23

5. NAME OF DRILLER: Gregg Brooks, PhD

6. DIRECTION OF HOLE: VERTICAL

7. THICKNESS OF BURDEN: 0.0 FT

8. DEPTH DRILLED INTO ROCK: N/A

9. TOTAL DEPTH OF HOLE: 19.0 FT

10. SIZE AND TYPE OF BIT: 3"

11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88

12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer

13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0

14. TOTAL NO. OF CORE BOXES: 1

15. ELEVATION GROUND WATER:

16. DATE HOLE: Started / Completed: 09/05/02 15:52

17. ELEVATION TOP OF HOLE: -17.9 FT

18. TOTAL CORE RECOVERY FOR BORING: 95 %

19. SIGNATURE OF GEOLOGIST: ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -17.9 | 0 | | CLAY, soft, very dark gray (5Y-3/1), (CL). | | 1 | |
| -19.3 | 1 | | SAND, very fine grained, quartz, little silt, trace shell hash, dark gray (5Y-4/1), (SM). | | 2 | Sample #2 Depth = 1.0<br>Mean (mm): 0.10, Phi Sorting: 0.62<br>Silt: 14.29% (SM) |
| -23.9 | 2–6 | | Alternating CLAY, SILT, and very fine grained SAND laminae, dark gray (5Y-4/1), (SM-SC). | | 3 | Sample #3 Depth = 4.5<br>*Mean (mm): 0.024, Phi Sorting: 2.1<br>*Sand 36.9% Silt 50.4% Clay 12.7% |
| -25.6 | 7 | | CLAY, little sandy silt laminae, dark gray (5Y-4/1), (CL). | | 1 | Sample #1 Depth = 7.0<br>*Mean (mm): 0.018, Phi Sorting: 2.3<br>*Sand 26.8% Silt 56.4% Clay 16.8% |
| -29.2 | 8–11 | | Alternating CLAY, SILT, and very fine grained SAND laminae, dark gray (5Y-4/1), (SM-SC). | | 3 | |
| -31.7 | 12–13 | | CLAY, little sandy silt laminae, dark gray (5Y-4/1), (CL). | | 1 | |
| -33.9 | 14–16 | | Alternating CLAY, SILT, and very fine grained SAND laminae, dark gray (5Y-4/1), (SM-SC). | | 3 | |
| -36 | 17–18 | | CLAY, little sandy silt laminae, dark gray (5Y-4/1), (CL). | | 1 | |
| -36.9 | 19 | | No Recovery | | | |
| | 19 | | End of Boring | | | |
| | 20–24 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | * Data Analyzed by UNO |

HOLE NO. EMVC-02-27

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

1. PROJECT: BARATARIA

2. LOCATION (Coordinates or Station): X=3833632 Y=272138

3. DRILLING AGENCY: Eckerd College

4. HOLE NO. (As shown on drawing title and file number): EMVC-02-27

5. NAME OF DRILLER: Gregg Brooks, PhD

6. DIRECTION OF HOLE: VERTICAL

7. THICKNESS OF BURDEN: 0.0 FT

8. DEPTH DRILLED INTO ROCK: N/A

9. TOTAL DEPTH OF HOLE: 19.0 FT

10. SIZE AND TYPE OF BIT: 3"

11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88

12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer

13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0

14. TOTAL NO. OF CORE BOXES: 1

15. ELEVATION GROUND WATER:

16. DATE HOLE Started / Completed: 09/12/02 15:58

17. ELEVATION TOP OF HOLE: -16.5 FT

18. TOTAL CORE RECOVERY FOR BORING: 91 %

19. SIGNATURE OF GEOLOGIST: ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -16.5 | 0 | | | | | |
| -17.1 | | | SAND, fine grained, quartz, trace silt, trace shell hash, clay from 0'-0.1', olive gray (5Y-4/2), (SW-SM). | | 1 | Sample #1 Depth = 0.4<br>Mean (mm): 0.14, Phi Sorting: 0.75<br>Silt: 7.7% (SW-SM) |
| | 1 | | | | | |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | CLAY, little sandy laminae, soft from 3.2'-3.8' and 6.0'-6.8', olive gray (5Y-4/2), (CL). | | 2 | Sample #2 Depth = 4.0<br>*Mean (mm): 0.008, Phi Sorting: 2.2<br>*Sand 9.7% Silt 61.3% Clay 29.1% |
| | 5 | | | | | |
| | 6 | | | | | |
| -24.1 | 7 | | | | | |
| | 8 | | SAND, fine grained, quartz, trace silt, 1" clayey sand layer @ 8.2', olive gray (5Y-5/2), (SP). | | 3 | Sample #3 Depth = 9.0<br>Mean (mm): 0.10, Phi Sorting: 0.66<br>Silt: 16.06% (SM) |
| | 9 | | | | | |
| -26.4 | 10 | | SANDY CLAY, clay layer from 11.1'-11.4', dark gray (5Y-4/1), (CL). | | 4 | Sample #4 Depth = 10.5<br>*Mean (mm): 0.025, Phi Sorting: 2.1<br>*Sand 42.7%, Silt 44.8%, Clay 12.5% |
| -27.9 | 11 | | | | | |
| | 12 | | CLAYEY SAND, quartz, 2" fine grained quartz sand layer @ 11.5', dark gray (5Y-4/1), (SC). | | 5 | Sample #5 Depth = 13.0<br>Mean (mm): 0.08, Phi Sorting: 0.52<br>Silt: 46.19% (ML) |
| | 13 | | | | | |
| -30.7 | 14 | | | | | |
| | 15 | | SANDY CLAY, dark gray (5Y-4/1), (CL). | | 4 | |
| -32.3 | 16 | | CLAY, trace sandy laminae, dark gray (5Y-4/1), (CL). | | 2 | |
| -33.7 | 17 | | | | | |
| | 18 | | No Recovery | | | |
| -35.5 | 19 | | End of Boring | | | * Data Analyzed by UNO |
| | 20 | | | | | |
| | 21 | | | | | |
| | 22 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | |
| | 23 | | | | | |
| | 24 | | | | | |

**HOLE NO. EMVC-02-29**

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

1. PROJECT: BARATARIA
2. LOCATION (Coordinates or Station): X=3835271 Y=270842
3. DRILLING AGENCY: Eckerd College
4. HOLE NO. (As shown on drawing title and file number): EMVC-02-29
5. NAME OF DRILLER: Gregg Brooks, PhD
6. DIRECTION OF HOLE: VERTICAL
7. THICKNESS OF BURDEN: 0.0 FT
8. DEPTH DRILLED INTO ROCK: N/A
9. TOTAL DEPTH OF HOLE: 19.0 FT
10. SIZE AND TYPE OF BIT: 3"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88
12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer
13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0
14. TOTAL NO. OF CORE BOXES: 1
15. ELEVATION GROUND WATER:
16. DATE HOLE: Started / Completed: 09/15/02 08:01
17. ELEVATION TOP OF HOLE: -16.9 FT
18. TOTAL CORE RECOVERY FOR BORING: 89 %
19. SIGNATURE OF GEOLOGIST: ML and JB

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -16.9 | 0 | | | | | |
| -18.7 | 1 | | CLAY, 1" silty sand layer with trace shell hash from 0'-0.1', olive gray (5Y-4/2), (CL). | | 1 | Sample #1 Depth = 1.0<br>*Mean (mm): 0.008, Phi Sorting: 1.9<br>*Sand 6.5% Silt 65.1% Clay 28.4% |
| -19.9 | 2 | | SANDY SILT, olive gray (5Y-4/2), (ML). | | 2 | Sample #2 Depth = 2.5<br>Mean (mm): 0.08, Phi Sorting: 0.57<br>Silt: 36.27% (SM) |
| -22.5 | 3 | | Alternating CLAY and SILT laminae, olive gray (5Y-4/2), (CL). | | 3 | Sample #3 Depth = 4.5<br>*Mean (mm): 0.017, Phi Sorting: 2.4<br>*Sand 23.4% Silt 58.3% Clay 18.4% |
| -24.2 | 4 | | SAND, fine to very fine grained, quartz, trace silt, gray (5Y-5/1), (SP). | | 4 | Sample #4 Depth = 6.5<br>Mean (mm): 0.16, Phi Sorting: 0.49<br>Silt: 2.59% (SP) |
| -28.4 | 5 | | SILTY SAND, quartz, trace organics, olive gray (5Y-5/2), (SM). | | 5 | Sample #5 Depth = 9.0<br>Mean (mm): 0.09, Phi Sorting: 0.5<br>Silt: 20.38% (SM) |
| -33.8 | 6 | | Alternating CLAY and SILT laminae, olive gray (5Y-4/2), (CL). | | 3 | |
| -35.9 | 7 | | No Recovery | | | |
| | 8 | | End of Boring | | | * Data Analyzed by UNO |

Note:
1) Soils are field visually classified in accordance with the Unified Soil Classification System.

**HOLE NO. EMVC-02-30**

# DRILLING LOG

DIVISION:

INSTALLATION:

SHEET 1 of 1

| | |
|---|---|
| 1. PROJECT: BARATARIA | 10. SIZE AND TYPE OF BIT: 3" |
| 2. LOCATION (Coordinates or Station): X=3835952 Y=270034 | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NAVD 88 |
| 3. DRILLING AGENCY: Eckerd College | 12. MANUFACTURER'S DESIGNATION OF DRILL: Rossfelder P-3 Electric Vibracorer |
| 4. HOLE NO. (As shown on drawing title and file number): EMVC-02-30 | 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN: Disturbed: 0 Undisturbed: 0 |
| 5. NAME OF DRILLER: Gregg Brooks, PhD | 14. TOTAL NO. OF CORE BOXES: 1 |
| 6. DIRECTION OF HOLE: VERTICAL | 15. ELEVATION GROUND WATER |
| 7. THICKNESS OF BURDEN: 0.0 FT | 16. DATE HOLE Started / Completed: 09/15/02 08:50 |
| 8. DEPTH DRILLED INTO ROCK: N/A | 17. ELEVATION TOP OF HOLE: -17.5 FT |
| 9. TOTAL DEPTH OF HOLE: 19.0 FT | 18. TOTAL CORE RECOVERY FOR BORING: 97 % |
| | 19. SIGNATURE OF GEOLOGIST: ML and JB |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS (Description) | CORE REC % | SAMPLE NUMBER | REMARKS |
|---|---|---|---|---|---|---|
| -17.5 | 0 | | SAND, very fine grained, quartz, little silt, trace shell hash, 1" clay pocket @ 0.1', very dark gray (5Y-3/1), (SW-SM). | | 1 | |
| -18.2 | 1 | | CLAY, olive gray (5Y-4/2), (CL). | | 2 | Sample #1 Depth = 1.7<br>Mean (mm): 0.09, Phi Sorting: 0.68<br>Silt: 28.12% (SM) |
| -18.8 | 2 | | SAND, very fine grained, quartz, little silt, trace shell hash, dark gray (5Y-4/1), (SW-SM). | | 1 | |
| -19.5 | 3 | | CLAY, olive gray (5Y-4/2), (CL). | | 2 | |
| | 4 | | | | | |
| | 5 | | SILT, very fine grained quartz SAND, and CLAY mixture, olive gray (5Y-4/2), (ML). | | 3 | Sample #3 Depth = 5.0<br>*Mean (mm): 0.029, Phi Sorting: 1.6<br>*Sand 33.8%, Silt 56.1%, Clay 10.1% |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| -26.7 | 9 | | | | | |
| | 10 | | CLAY, trace silty sand laminae, olive gray (5Y-4/2), (CL). | | 2 | Sample #2 Depth = 15.0<br>*Mean (mm): 0.016, Phi Sorting: 2.6<br>*Sand 23.7%, Silt 55.4%, Clay 21.0% |
| | 11 | | | | | |
| | 12 | | | | | |
| | 13 | | | | | |
| | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| | 17 | | | | | |
| -36 | 18 | | | | | |
| -36.5 | 19 | | No Recovery | | | |
| | | | End of Boring | | | |
| | 20 | | | | | |
| | 21 | | | | | * Data Analyzed by UNO |
| | 22 | | | | | |
| | 23 | | Note:<br>1) Soils are field visually classified in accordance with the Unified Soil Classification System. | | | |
| | 24 | | | | | |